

Form PTO-1449

Information Disclosure Statement  
By Applicant

Docket: 91-579.9 SN: 09/115,492

Applicant: Mark E. TUTTLE et al.

Filed: 7/14/98 Art Unit: 1734

U.S. PATENT DOCUMENTS

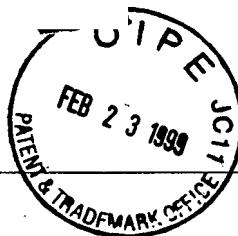
| Examiner's Initial | Patent Number | Date  | Name                | Class | Subclass | Filing Date If Appropriate |
|--------------------|---------------|-------|---------------------|-------|----------|----------------------------|
| RRK                | 4,605,813     | 8/86  | Takeuchi et al.     | 136   | 244      |                            |
| RRK                | 4,608,323     | 8/86  | Zaborney            | 429   | 167      |                            |
| RRK                | 4,612,409     | 9/86  | Hamakawa et al.     | 136   | 244      |                            |
| RRK                | 4,783,646     | 11/88 | Matsuzaki           | 340   | 572      |                            |
| RRK                | 4,962,415     | 10/90 | Yamamoto et al.     | 357   | 74       |                            |
| RRK                | 4,981,672     | 1/91  | de Neufville et al. | 423   | 464      |                            |
| RRK                | 5,162,172     | 11/92 | Kaun                | 429   | 155      | 12/90                      |
| RRK                | 5,227,264     | 7/93  | Duval et al.        | 429   | 153      | 2/91                       |
| RRK                | 5,497,140     | 3/96  | Tuttle              | 342   | 51       | 8/92                       |
| RRK                | 5,776,278     | 7/98  | Tuttle et al.       | 156   | 213      | 10/14/98                   |
| RRK                | RE 35746      | 3/98  | Lake                | 429   | 127      | 1/93                       |
|                    |               |       |                     |       |          |                            |
|                    |               |       |                     |       |          |                            |
|                    |               |       |                     |       |          |                            |

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| Examiner's Initial | Document Number | Date | Country | Class | Subclass | Translation<br>Yes      No |
|--------------------|-----------------|------|---------|-------|----------|----------------------------|
| RRK                | 2-021557        | 1/90 | Japan   | —     | —        | English Abstract<br>only   |
| RRK                | 2-179794        | 7/90 | Japan   | —     | —        | Partial                    |
| RRK                | 4-106865        | 4/92 | Japan   | —     | —        | English Abstract<br>only   |
|                    |                 |      |         |       |          |                            |
|                    |                 |      |         |       |          |                            |
|                    |                 |      |         |       |          |                            |

Examiner: Robert R. Koch Date Considered: May 7, 1999

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609.  
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|--------------------|---------------|-------|-------------------|-------|----------|----------------------------|
| RRK                | 3,750,167     | 7/73  | Gehman et al.     | 342   | 44       |                            |
| RRK                | 3,780,368     | 12/73 | Northeved et al.  | 342   | 44       |                            |
| RRK                | 3,832,530     | 8/74  | Reitbock et al.   | 342   | 44       |                            |
| RRK                | 3,849,633     | 11/74 | Reitbock et al.   | 235   | 487      |                            |
| RRK                | 4,049,969     | 9/77  | Salonimer et al.  | 250   | 458      |                            |
| RRK                | 4,262,631     | 4/81  | Kubacki           | 118   | 723      |                            |
| RRK                | 4,331,957     | 5/82  | Enander et al.    | 343   | 6.8 R    |                            |
| RRK                | 4,399,441     | 8/83  | Vaughan et al.    | 343   | 6.5 SS   |                            |
| RRK                | 4,418,411     | 11/83 | Strietzel         | 371   | 67       |                            |
| RRK                | 4,484,355     | 11/84 | Henke et al.      | 455   | 76       |                            |
| RRK                | 4,680,724     | 7/87  | Sugiyama et al.   | 364   | 708      |                            |
| RRK                | 4,727,560     | 2/88  | Van Zanten et al. | 377   | 60       |                            |
| RRK                | 4,746,618     | 5/88  | Nath et al.       | 437   | 2        |                            |
| RRK                | 4,746,830     | 5/88  | Holland           | 310   | 313. D   |                            |
| RRK                | 4,756,717     | 7/88  | Sturgis et al.    | 427   | 290      |                            |
| RRK                | 4,777,563     | 10/88 | Teraoka et al.    | 361   | 395      |                            |
| RRK                | 4,827,110     | 5/89  | Rossi et al.      | 235   | 376      |                            |
| RRK                | 4,827,395     | 5/89  | Anders et al.     | 364   | 138      |                            |
| RRK                | 4,854,328     | 8/89  | Pollack           | 128   | 736      |                            |
| RRK                | 4,882,294     | 11/89 | Christenson       | 437   | 90       |                            |
| RRK                | 4,918,631     | 4/90  | Hara et al.       | 364   | 708      |                            |
| RRK                | 4,942,327     | 7/90  | Watanabe et al.   | 310   | 313. R   |                            |
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Examiner: *Robert R. Koehler*

Date Considered: *May 8, 1999*

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| Examiner's Initial                 | Author, Title, Date, Pertinent Pages, Publisher  |
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| <i>RRK</i>                         | K. Casson et al., "High Temperature Packaging: Flip Chip on Flexible Laminate", January 1992, Surface Mount Technology, pp. 19-20.   |
| <i>RRK</i>                         | R.W. Johnson, "Polymer Thick Films: Technology and Materials", July 1982, Circuits Manufacturing (reprint).  |
| <i>RRK</i>                         | K. Gilleo, "Using SM Devices On Flexible Circuitry", March 1986, Electri-onics, pp. 20-23.   |
| <i>RRK</i>                         | C.W. Pierce; "Epitaxy"; 1988, 1983; page 55; in "VLSI Technology"; S.M. Sze, editor; McGraw-Hill Book Co.  |
| <i>RRK</i>                         | J. Rice; "Silica-coated films to go commercial in '93"; from Oct. 93 issue of "Food Processing".   |
| <i>RRK</i>                         | R.J. Nelson; "Plasma Enhanced Chemical Vapor Deposition of SiO <sub>x</sub> Coatings for Gas Diffusion Barrier Enhancement of Flexible Polymerized Compounds"; presented 7/9/93 at Society for Research of Polymerized Compound Surfaces, Fukui City, Japan. |
| <i>RRK</i>                         | A. Rizika; "Vapor Coating with SiO <sub>x</sub> : The Flexible Glass Barrier"; presented Nov. 8-11, 1992 at Pack Expo '92 Conference, Chicago, Ill.  |
| <i>RRK</i>                         | "Airco coating technology announces contracts in its toll coating program"; 3/26/93 press release from Airco Coating Technology, Fairfield, CA.  |
| <i>RRK</i>                         | J.T. Felts; "Transparent Barrier Coatings Update: Flexible Substrates"; Airco Coating Technology, Concord, CA. (Publication date not shown; mailed by Airco to Mark Tuttle 9/21/93.)   |
| <i>RRK</i>                         | J.T. Felts; "Transparent Gas Barrier Technologies"; Airco Coating Technology, Concord, CA. (Publication date not shown; mailed by Airco to Mark Tuttle 9/21/93.)   |
| <i>RRK</i>                         | P. Ang; "Progress of QLF Barrier Coating"; Airco Coating Technology, Concord, CA. (Publication date not shown; mailed by Airco to Mark Tuttle 9/21/93.)  |
| <i>RRK</i>                         | Untitled page stating moisture barrier performance of QLF barrier coating on 12 $\mu$ polyester film, Sample ID # R9-930316. (Publication date not shown; mailed by Airco to Mark Tuttle 9/21/93.)   |
| Examiner: <i>Robert R. Koehler</i> | Date Considered: <i>May 8, 1999</i>  |

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